



Neal's Dump

Westinghouse
Electric Corporation

Bloomington
Project

2400 Ardmore Boulevard
Pittsburgh PA 15221

July 25, 1991

DATE/RECEIVED

BP:91-0659

JUL 26 1991

DEM

Director Waste Management Division
United States Environmental Protection Agency, Region V
230 South Dearborn Street
Chicago, IL 60604

Assistant Attorney General
Land and Natural Resources Division
U. S. Department of Justice
Washington, DC 20530

Ms. Corinne Wellish, Assistant Commissioner
Office of Environmental Response
Indiana Department of Environmental Management
5500 West Bradbury Avenue
Indianapolis, IN 46241

Director
Utilities Service Board
City of Bloomington
P. O. Box 1216
1969 South Henderson
Bloomington, IN 47402

Monroe County Board of Health
119 West Seventh Street
Bloomington, IN 47401

Reference: Ground Water Monitoring Report
for Neal's Dump

Dear Madam/Sir:

Enclosed please find the semi-annual ground water monitoring report for Neal's Dump. Results of ground water monitoring samples taken on May 29-30, 1991 are presented.

BP:91-0659

GROUND WATER MONITORING REPORT FOR NEAL'S DUMP

PAGE 2

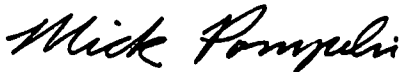
These results show the presence of PCBs for the first time in monitoring wells 1D, 2D, 4D, and 6B. PCBs were also found in well 5D for the first time since May 1987. In order to verify these results, Westinghouse again sampled the monitoring wells on June 20-21, 1991. PCBs were again detected in monitoring wells 4D and 5D. Samples from wells 1D and 2D were below detection limits (BDL). Well 6B was dry and therefore, did not produce a sample. In order to determine if any trend is developing, Westinghouse again sampled the wells on July 18 and will continue to sample the monitoring wells monthly through November of 1991, when the next semi-annual monitoring event is scheduled. Results of this monitoring activity will be reported to you.

Once the results of the June monitoring event was made available, Westinghouse sampled nearby residential wells on July 17, 1991. No PCBs were found in these residential wells (based on a PCB detection limit of 0.1 ppb). A report describing the residential well monitoring program and results will be forwarded to you shortly. Also, results of the residential well sampling effort will be provided to each well user.

If you have any questions regarding this report, please contact Jim Patrick on 812-334-0030.

Very truly yours,

WESTINGHOUSE ELECTRIC CORPORATION



James L. Little, Director
Bloomington Project

cc: Rex A. Osborn
Dan J. Hopkins
Geoffrey M. Grodner, Esquire
Steve Creech, Administrator

Westinghouse
Electric Corporation -

Bloomington
Project

P O Box 997
Bloomington Indiana 47402-0997

DATE/RECEIVED

July 25, 1991

JUL 31 1991

BP-BPO-91-262

DEM

Owen County Health Dept.
Dr. B. Diane Wells
Courthouse
Spencer, IN 47460

Ref: Groundwater Monitoring Report for Neal's Dump

Dear Dr. Wells;


Enclosed please find a copy of the semi-annual groundwater monitoring report prepared by Westinghouse Electric Corporation for Neal's Dump. Results of groundwater monitoring samples for the months of May and June of 1991 are presented.

The results of the sample analysis show low levels of PCBs for the first time in monitoring wells 1D, 2D, 4D and 6B. Based on these findings, Westinghouse sampled nearby residential wells on July 17, 1991. No PCBs were found in these residential wells based on a PCB detection limit of 0.1 ppb. A copy of the analytical results of the residential well samples will be provided to each well user for their information.

If you have any questions regarding this report, please contact me on 812-334-0030.

Very truly yours,

Westinghouse Electric Corporation


James B. Patrick
Site Manager

cc: Letter only. Report submitted by direct correspondence
Rex Osborn - IDEM
Dan Hopkins - USEPA
John Langley - City of Bloomington
Steve Creech - Monroe Co. Health Department

DATE/RECEIVED

JUL 26 1991

DEM

**GROUND WATER MONITORING REPORT
NEAL'S DUMP
OWEN COUNTY, INDIANA**

**SEMI-ANNUAL
PRE-REMOVAL MONITORING
EVENT 6 OF 15
MAY 29-30, 1991**

Prepared For:

**Westinghouse Electric Corporation
Environmental Systems and Services Division
Pittsburgh, Pennsylvania 15220**

Prepared By:

**Westinghouse Environmental and Geotechnical Services, Inc.
3100 Spring Forest Road (27604)
Post Office Box 58069
Raleigh, North Carolina 27658-8069**

July 1991



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1.0 INTRODUCTION

Westinghouse Environmental and Geotechnical Services, Inc. (Westinghouse) performed ground water sampling at Neal's Dump in Owen County, Indiana, on May 29-30, 1991. The sampling event was the sixth of fifteen sampling events that will be used to establish baseline PCB concentrations in the on-site monitor wells.

This report contains the analytical results and field data associated with the sampling event. Also included are summary tables of the previous on-site sampling event. A ground water contour map of the shallow wells (Figure 1) and a potentiometric surface map of the lower saturated unit (Figure 2) were prepared from water levels measured immediately prior to the May 29, 1991 sample collection.

2.0 METHODS

Ground water samples were collected from eight monitor wells in accordance with approved sampling protocols. Prior to sample collection, the water level in each well was measured and the volume of water in well storage was calculated. Each well was then purged dry or until field parameters (temperature, pH, and specific conductance) stabilized to allow representative samples to be obtained.

Samples were collected upon completion of purging. Each sample was withdrawn with the dedicated bailer or tubing used to purge each respective well and added directly to the sample bottles.

The field parameters of the samples were also measured and recorded. For quality assurance purposes, a duplicate sample and a field blank were also collected.

All samples were labeled and logged onto a chain-of-custody form. These samples were stored and transported in insulated coolers containing wet ice. Custody of the water samples was maintained by Westinghouse until delivery to the analytical laboratory.



The water samples and quality assurance samples were analyzed by EMS Heritage Laboratories, Inc. in Indianapolis, Indiana. All PCB sample parameters were analyzed to a detection limit of 0.1 ppb by EPA Method 608/SW-846 Method 8080, except for Arochlor 1221 which had a detection limit of 0.5 ppb. Due to the high concentration of Arochlor 1016 found in the sample taken from monitor well 5S, the sample was diluted. In three samples, Arochlor 1016 is degraded. Please note these changes in the certificates of analysis in Appendix A.

3.0 RESULTS

Field measurements, PCB analytical results, and QA/QC results are included in Table 1. Historical PCB analytical results for individual wells are presented in Tables 2 through 9. Laboratory reports for the sampling event are included in Appendix A and Appendix B. All sampling field log sheets are in Appendix C and Appendix D.

The ground water contour map of the upper unconfined aquifer is presented as Figure 1. The uncontoured potentiometric surface of the lower saturated unit is shown in Figure 2. Representative contouring of this surface was not attempted due to the extremely small differences in water levels of the wells measured. However, ground water flow appears to be towards the west.





TABLES



TABLE 1a
GROUND WATER MONITORING RESULTS
NEAL'S DUMP
BASELINE SAMPLING EVENT 5 OF 15
MAY 29, 1991

WELL NUMBER	SAMPLE NUMBER	SAMPLING APPARATUS	GROUND WATER ELEVATION (FT ABOVE MSL)	TEMPERATURE (DEGREES C)	pH	SPECIFIC CONDUCTANCE (UMHOS)	CONCENTRATION SUM OF AROCHLORS (PPB)
"SHALLOW" WELLS							
1S	91ND05S08	PS	573.75	13.0	6.7	185	1.0
1S*	91ND05D08	PS	573.75	13.0	6.7	185	0.21
2S	91ND05S03	PS	579.93	15.2	8.7	330	BDL
5S	91ND05S01	B	573.99	13.9	10.0	240	93.0
FIELD BLANK	91ND05E01	N/A	N/A	N/A	N/A	N/A	BDL
6B	91ND05S05	B	573.22	13.2	7.0	440	0.12
"DEEP" WELLS							
1D	91ND05S07	B	549.21	13.8	>12	360	0.28
2D	91ND05S04	B	549.25	14.8	8.8	290	0.43
4D	91ND05S06	B	549.21	14.2	7.3	500	0.63
5D	91ND05S02	B	549.15	13.7	8.3	370	0.11

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TABLE 1b
GROUND WATER MONITORING RESULTS
NEAL'S DUMP
CONFIRMATION SAMPLING EVENT
JUNE 20, 1991

WELL NUMBER	SAMPLE NUMBER	SAMPLING APPARATUS	GROUND WATER ELEVATION (FT ABOVE MSL)	TEMPERATURE (DEGREES C)	pH	SPECIFIC CONDUCTANCE (UMHOS)	CONCENTRATION SUM OF AROCHELORS (PPB)
"SHALLOW" WELLS							
1S	91ND06S08	PS	572.87	14.8	8.8	190	BDL
1S*	91ND06D08	PS	572.87	14.8	8.8	190	BDL
2S	91ND06S03	PS	579.77	15.4	9.4	338	BDL
5S	91ND06S01	B	573.05	13.8	7.6	325	47.0
FIELD BLANK	91ND06E01	N/A	N/A	N/A	N/A	N/A	BDL
6B	N/A	N/A	DRY	N/A	N/A	N/A	N/A
"DEEP" WELLS							
1D	91ND06S07	B	548.81	14.3	>12	238	BDL
2D	91ND06S04	B	549.14	15.8	7.0	312	BDL
4D	91ND06S06	B	548.93	14.1	11.2	450	0.16
5D	91ND06S02	B	548.87	14.4	11.0	400	0.11

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TABLE 2
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 1S

DATE SAMPLED	PCB CONCENTRATION (PPB)
20-May-87	5.4
03-May-89	0.25/0.18
07-Nov-89	0.26/0.16
01-May-90	BDL
06-Nov-90	BDL/0.36
29-May-91	1.0/0.21
20-Jun-91	BDL/BDL

BDL = BELOW DETECTION LIMIT OF 0.1 PPB
(0.5 PPB FOR AROCHLOR 1221)

R91A233B

TABLE 3
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 2S

DATE SAMPLED	PCB CONCENTRATION (PPB)
19-May-87	ND
03-May-89	ND
07-Nov-89	BDL
01-May-90	BDL
06-Nov-90	BDL
29-May-91	BDL
20-Jun-91	BDL

ND = NOT DETECTED AT 0.1 PPB
BDL = BELOW DETECTION LIMIT OF 0.1 PPB
(0.5 PPB FOR AROCHLOR 1221)

R91A233B

TABLE 4
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 5S

DATE SAMPLED	PCB CONCENTRATION (PPB)
19-May-87	210.0
03-May-89	22.0
07-Nov-89	89.0
01-May-90	180
06-Nov-90	69.0
30-May-91	93.0
20-Jun-91	47.0

R91A233B

TABLE 5
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 6B

DATE SAMPLED	PCB CONCENTRATION (PPB)
19-May-87	ND
03-May-89	ND
07-Nov-89	BDL
01-May-90	BDL
06-Nov-90	DRY
30-May-91	0.12
20-Jun-91	DRY

ND = NOT DETECTED AT 0.1 PPB

BDL = BELOW DETECTION LIMIT OF 0.1 PPB
(0.5 PPB FOR AROCHLOR 1221)

DRY = WELL WAS DRY, NO SAMPLE WAS TAKEN

TABLE 6
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 1D

DATE SAMPLED	PCB CONCENTRATION (PPB)
19-May-87	ND
03-May-89	ND
07-Nov-89	BDL
01-May-90	BDL
06-Nov-90	BDL
29-May-91	0.28
20-Jun-91	BDL

ND = NOT DETECTED AT 0.1 PPB
BDL = BELOW DETECTION LIMIT OF 0.1 PPB
(0.5 PPB FOR AROCHLOR 1221)

R91A233B

TABLE 7
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 2D

DATE SAMPLED	PCB CONCENTRATION (PPB)
20-May-87	ND
03-May-89	ND
07-Nov-89	BDL
01-May-90	BDL
06-Nov-90	BDL
29-May-91	0.43
20-Jun-91	BDL

ND = NOT DETECTED AT 0.1 PPB

BDL = BELOW DETECTION LIMIT OF 0.1 PPB
(0.5 PPB FOR AROCHLOR 1221)

R91A233B

TABLE 8
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 4D

DATE SAMPLED	PCB CONCENTRATION (PPB)
19-May-87	ND
03-May-89	ND
07-Nov-89	BDL
01-May-90	BDL
06-Nov-90	BDL
29-May-91	0.63
20-Jun-91	0.16

ND = NOT DETECTED AT 0.1 PPB
BDL = BELOW DETECTION LIMIT OF 0.1 PPB
(0.5 PPB FOR AROCHLOR 1221)

R91A233B

TABLE 9
CHRONOLOGY OF PCB ANALYTICAL RESULTS
NEAL'S DUMP
OWEN COUNTY, INDIANA
WELL 5D

DATE SAMPLED	PCB CONCENTRATION (PPB)
19-May-87	0.5/0.7
03-May-89	ND
07-Nov-89	BDL
01-May-90	BDL
06-Nov-90	BDL
29-May-91	0.11
20-Jun-91	0.11

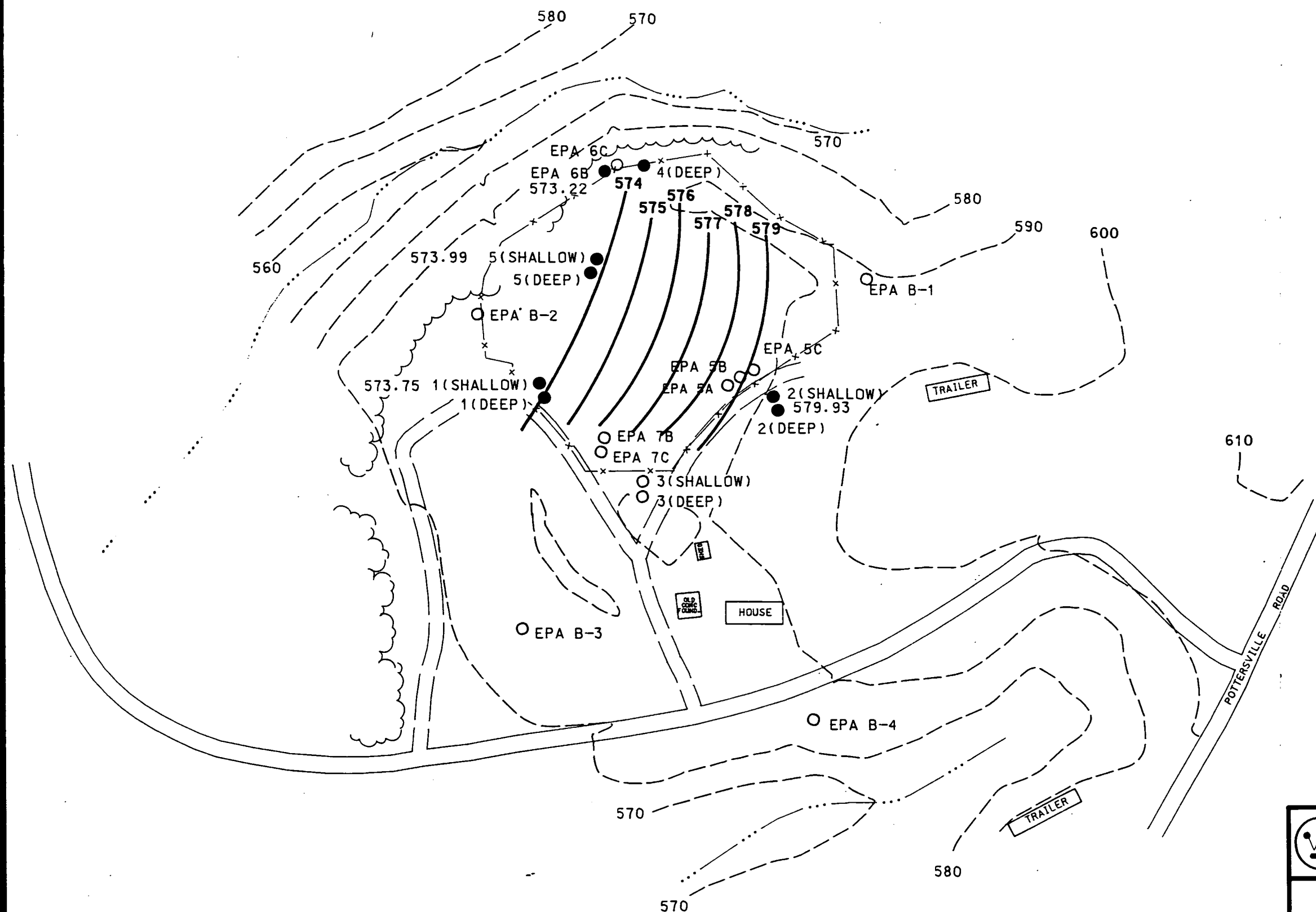
ND = NOT DETECTED AT 0.1 PPB
BDL = BELOW DETECTION LIMIT OF 0.1 PPB
(0.5 PPB FOR AROCHLOR 1221)

R91A233B



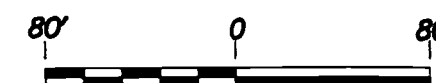
FIGURES





EXPLANATION:

- GROUND WATER MONITORING WELLS BY OTHERS
- ON-SITE GROUND WATER MONITORING WELLS
- 580 / GROUNDWATER CONTOUR LINES (ONE FOOT CONTOUR INTERVAL)
- 570 / GROUND SURFACE CONTOUR LINES (TEN FOOT CONTOUR INTERVAL)



SCALE

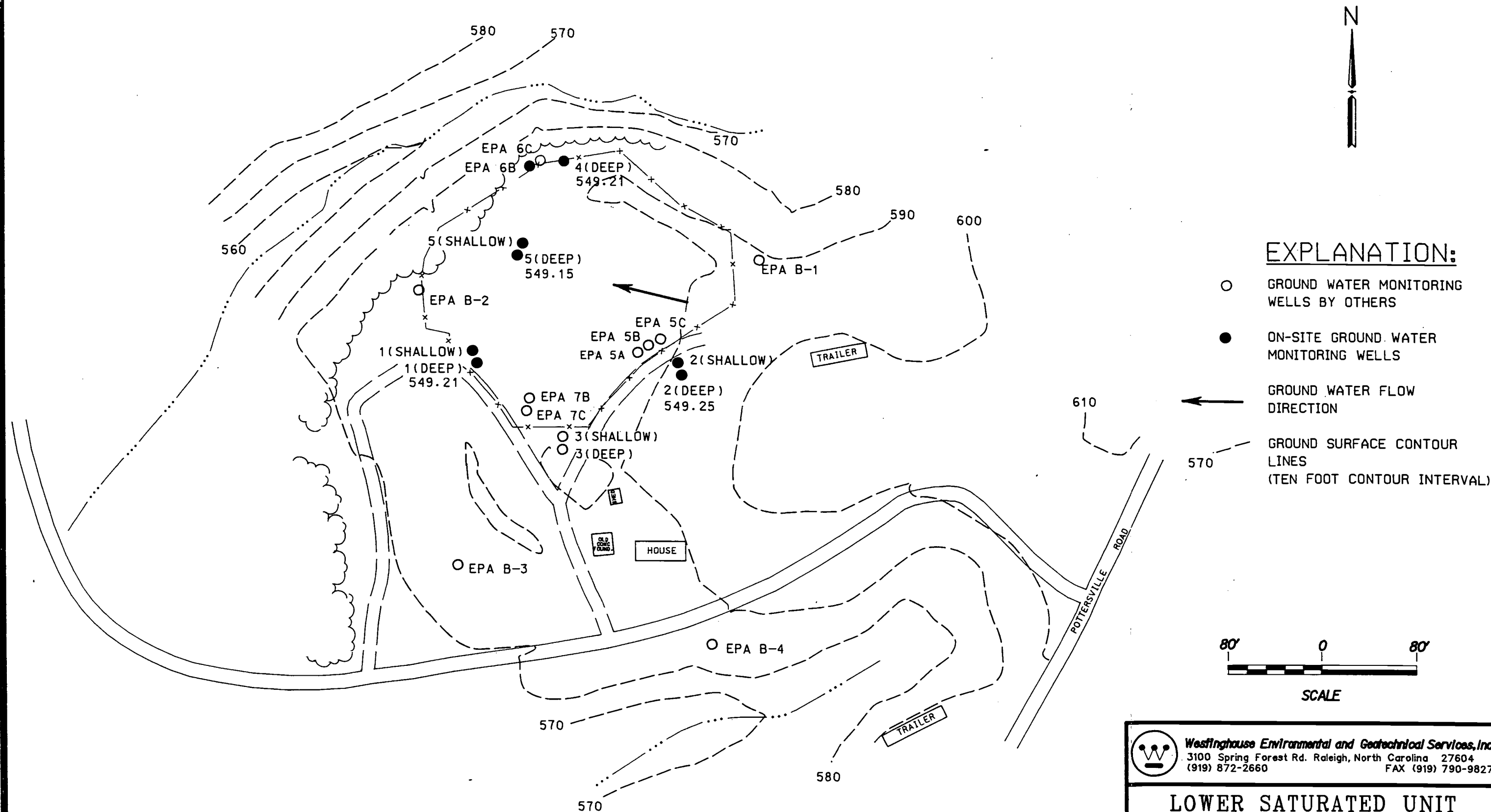


Westinghouse Environmental and Geotechnical Services, Inc.
3100 Spring Forest Rd. Raleigh, North Carolina 27604
(919) 872-2660 FAX (919) 790-9827

UPPER SATURATED UNIT GROUND WATER CONTOUR MAP MAY 29, 1991

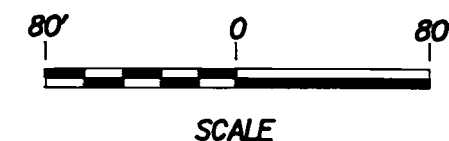
NEAL'S DUMP - BLOOMINGTON, INDIANA

Scale: 1" = 100'	Project Number: REW-A-233
Contour Interval: AS NOTED	Checked By:
Date: 7-9-91	Figure No.: 1



EXPLANATION:

- GROUND WATER MONITORING WELLS BY OTHERS
- ON-SITE GROUND WATER MONITORING WELLS
- ← GROUND WATER FLOW DIRECTION
- - - GROUND SURFACE CONTOUR LINES (TEN FOOT CONTOUR INTERVAL)



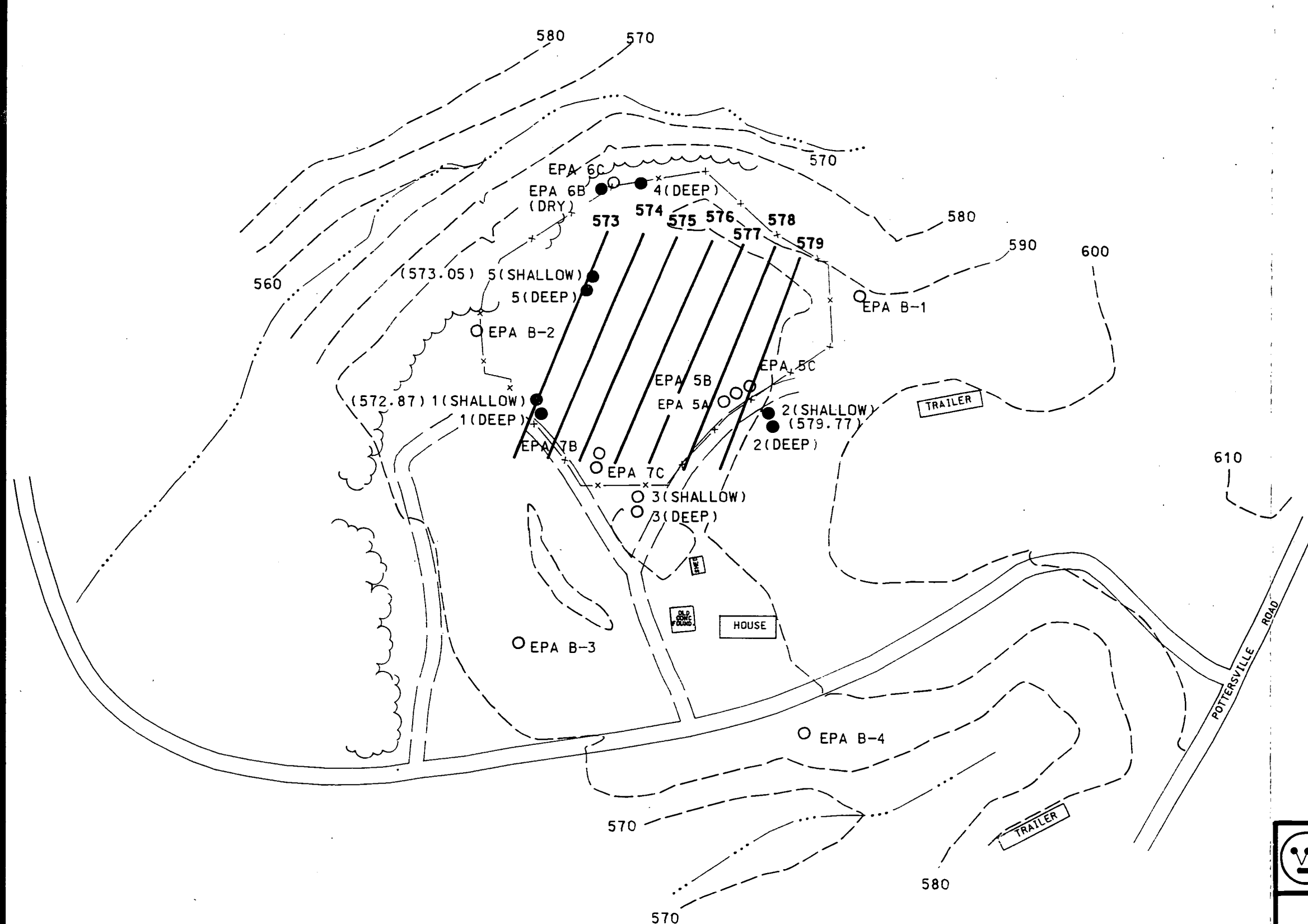
Westinghouse Environmental and Geotechnical Services, Inc.
3100 Spring Forest Rd. Raleigh, North Carolina 27604
(919) 872-2660 FAX (919) 790-9827

LOWER SATURATED UNIT POTENTIOMETRIC SURFACE MAP

MAY 29, 1991

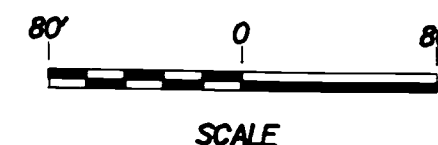
NEAL'S DUMP - BLOOMINGTON, INDIANA

Scale: 1" = 100'	Project Number: REW-A-233
Contour Interval: AS NOTED	Checked By:
Date: 7-10-91	Figure No.: 2



EXPLANATION:

- GROUND WATER MONITORING WELLS BY OTHERS
- ON-SITE GROUND WATER MONITORING WELLS
- 576 / GROUND WATER CONTOUR LINES (ONE FOOT CONTOUR INTERVAL)
- 570 - GROUND SURFACE CONTOUR LINES (TEN FOOT CONTOUR INTERVAL)

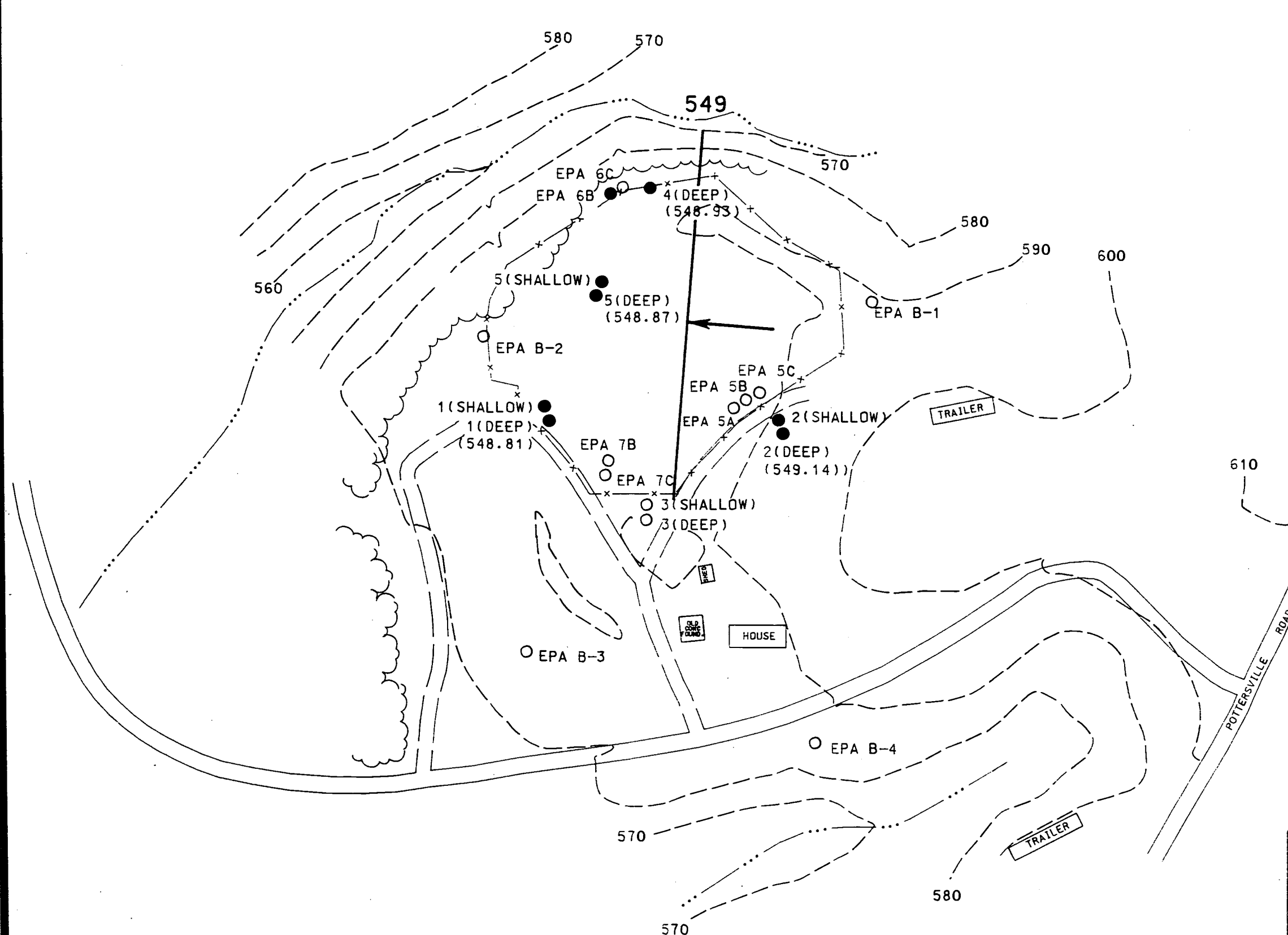


Westinghouse Environmental and Geotechnical Services, Inc.
3100 Spring Forest Rd. Raleigh, North Carolina 27604
(919) 872-2660 FAX (919) 790-9827

UPPER SATURATED UNIT GROUND WATER CONTOUR MAP JUNE 20, 1991

NEAL'S DUMP - BLOOMINGTON, INDIANA

Scale: 1" = 100'	Project Number: REW-A-233
Contour Interval: AS NOTED	Checked By:
Date: 7-22-91	Figure No.: 3



EXPLANATION:

- GROUND WATER MONITORING WELLS BY OTHERS
- ON-SITE GROUND WATER MONITORING WELLS
- 549 GROUND WATER CONTOUR LINE
- GROUND WATER FLOW DIRECTION
- - - 570 GROUND SURFACE CONTOUR LINES (TEN FOOT CONTOUR INTERVAL)



Westinghouse Environmental and Geotechnical Services, Inc.
3100 Spring Forest Rd. Raleigh, North Carolina 27604
(919) 872-2660 FAX (919) 790-9827

LOWER SATURATED UNIT POTENTIOMETRIC SURFACE MAP JUNE 20, 1991

NEAL'S DUMP - BLOOMINGTON, INDIANA

Scale: 1" = 100'	Project Number: REW-A-233
Contour Interval: AS NOTED	Checked By:
Date: 7-10-91	Figure No.: 4



APPENDIX A



CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230853
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	29-MAY-91 13:30

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
---	--

DESCRIPTION: 91ND05S08 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND-1S
---	--

CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1070		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	0.0010	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

BDL Below Detection Limit	Sample Comments
------------------------------	------------------------

Quality Assurance Officer: 

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230854
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	29-MAY-91 13:30


Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
--	---

DESCRIPTION: 91ND05D08 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND-15 (DUPLICATE)
--	---

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: D. BLUE		Analysis Date: 04-JUN-91	
		Test: P904.1. 0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1070		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88			
Analyst: L. DOBBINS		Analysis Date: 07-JUN-91	
Prep: CLP PCB EXTRACTION CLP SOW 2/88		Instrument: GC/ECD	
		Test: 0904.1. 0	
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	0.00021	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

BDL Below Detection Limit	Sample Comments
---------------------------	-----------------

Quality Assurance Officer: 

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230850
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	29-MAY-91 12:30

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
--	---

Sample Description DESCRIPTION: 91ND05S03 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	ND-2S
--	-------

CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 03-JUN-91 Test: P904.1. 0				
Parameter		Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME		1000		mL
FINAL VOLUME		5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECO Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88				
Parameter		Result	Det. Limit	Units
PCB AROCHLOR 1016		BDL	.0001	mg/L
PCB AROCHLOR 1221		BDL	.0005	mg/L
PCB AROCHLOR 1232		BDL	.0001	mg/L
PCB AROCHLOR 1242		BDL	.0001	mg/L
PCB AROCHLOR 1248		BDL	.0001	mg/L
PCB AROCHLOR 1254		BDL	.0001	mg/L
PCB AROCHLOR 1260		BDL	.0001	mg/L
PCB AROCHLOR 1262		BDL	.0001	mg/L

Sample Comments BDL Below Detection Limit

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230857
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	30-MAY-91 09:10

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND05S01 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND - 5S
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1070		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.093	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L
NOTE: SAMPLE DILUTED DUE TO HIGH CONCENTRATION OF PCBS			

Sample Comments BDL Below Detection Limit

Quality Assurance Officer: _____

L. Peterson

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 30-MAY-91	Lab ID A230856
	Complete 13-JUN-91	PO Number RN-21421-S
	Printed 14-JUN-91	Sampled 29-MAY-91 13:45

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND05E01 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description FIELD BLANK
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1070		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

BDL Below Detection Limit	Sample Comments
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CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230858
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	30-MAY-91 09:20

Report To	Bill To
WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description	
DESCRIPTION: 91ND05S05 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	ND-6B

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: D. BLUE	Analysis Date: 04-JUN-91	Test: P904.1. 0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1090		
FINAL VOLUME	5		mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88			
Analyst: L. DOBBINS	Analysis Date: 07-JUN-91	Instrument: GC/ECD	Test: 0904.1. 0
Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.00012	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L
NOTE: AROCHLOR 1016 IS DEGRADED			

Sample Comments	
BDL Below Detection Limit	

Quality Assurance Officer: _____



CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230852
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	29-MAY-91 13:15

Report To	Bill To
WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

DESCRIPTION:	Sample Description	ID
91ND05S07		
BLANKET ORDER RELEASE #:	NOT RECEIVED WITH ORDER	ND-10

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: D. BLUE		Analysis Date: 03-JUN-91	
Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1030		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88			
Analyst: L. DOBBINS		Analysis Date: 07-JUN-91	Instrument: GC/ECD
Prep: CLP PCB EXTRACTION CLP SOW 2/88		Test: 0904.1. 0	
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.00028	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L
NOTE: AROCHLOR 1016 IS DECAHCB			

BDL	Below Detection Limit	Sample Comments
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Quality Assurance Officer:

Last Page 1

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230851
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	29-MAY-91 12:30

Report To	Bill To
WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

DESCRIPTION: 91ND05S04 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND - 20
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		
FINAL VOLUME	5		mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.00043	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

BDL Below Detection Limit	Sample Comments
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Quality Assurance Officer: _____

[Signature]

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230849
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	29-MAY-91 12:15

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND05S06 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND-4D
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1080		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.00063	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

BDL Below Detection Limit	Sample Comments
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Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	30-MAY-91	A230855
	Complete	PO Number
	13-JUN-91	RN-21421-S
	Printed	Sampled
	14-JUN-91	29-MAY-91 13:40

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND05S02 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND-SD
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1050		
FINAL VOLUME	5		mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.00011	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L
NOTE: AROCHLOR 1016 IS DEGRADED.			

BDL Below Detection Limit	Sample Comments
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Quality Assurance Officer: _____

[Handwritten Signature]



APPENDIX B



CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	21-JUN-91	A232491
	Complete	PO Number
	28-JUN-91	RN-21421-S
	Printed	Sampled
	29-JUN-91	20-JUN-91 16:00

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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Sample Description DESCRIPTION: 91ND06S08 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	ND - IS
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	970		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

Sample Comments BDL Below Detection Limit
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Quality Assurance Officer: 

C E R T I F I C A T E O F A N A L Y S I S

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	21-JUN-91	A232492
	Complete	PO Number
	28-JUN-91	RN-21421-S
	Printed	Sampled
	29-JUN-91	20-JUN-91 16:00

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND06D08 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	ND-15 (Duplicate)
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: R. MCKAIN Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

BDL Below Detection Limit	Sample Comments
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CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	21-JUN-91	A232489
	Complete	PO Number
	28-JUN-91	RN-21421-S
	Printed	Sampled
	29-JUN-91	20-JUN-91 14:50

Report To	Bill To
WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description	
DESCRIPTION: 91ND06S03 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	ND - 2S

CLP PCB EXTRACTION CLP SOW 2/88 Analyst: R. MCKAIN Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

Sample Comments
BDL Below Detection Limit

Quality Assurance Officer: _____

DP Peterson

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 21-JUN-91	Lab ID A232495
	Complete 28-JUN-91	PO Number RN-21421-S
	Printed 29-JUN-91	Sampled 21-JUN-91 08:30

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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Sample Description DESCRIPTION: 91ND06S01 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	ND-55
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	930		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.047	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L
NOTE: SAMPLE DILUTED 1:10 DUE TO HIGH AROCHLOR 1016 LEVEL AROCHLOR WAS DEGRADED			

Sample Comments BDL Below Detection Limit
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Quality Assurance Officer:



CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	21-JUN-91	A232496
	Complete	PO Number
	28-JUN-91	RN-21421-S
	Printed	Sampled
	29-JUN-91	21-JUN-91 08:30

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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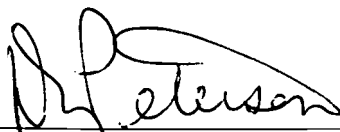
Sample Description DESCRIPTION: 91ND06E01 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	FIELD BLANK
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: R. MCKAIN Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	Result 980 5	Det. Limit	Units mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter PCB AROCHLOR 1016 PCB AROCHLOR 1221 PCB AROCHLOR 1232 PCB AROCHLOR 1242 PCB AROCHLOR 1248 PCB AROCHLOR 1254 PCB AROCHLOR 1260 PCB AROCHLOR 1262	Result BDL BDL BDL BDL BDL BDL BDL BDL	Det. Limit .0001 .0005 .0001 .0001 .0001 .0001 .0001 .0001	Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L

BDL Below Detection Limit	Sample Comments
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Quality Assurance Officer:



CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	21-JUN-91	A232490
	Complete	PO Number
	28-JUN-91	RN-21421-S
	Printed	Sampled
	29-JUN-91	20-JUN-91 15:00

Report To	Bill To
WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description
DESCRIPTION: 91ND06S07 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER ND-ID

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: D. BLUE	Analysis Date: 25-JUN-91	Test: P904.1. 0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	890		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88			
Analyst: E. WERNZ	Analysis Date: 26-JUN-91	Instrument: GC/ECD	Test: 0904.1. 0
Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

Sample Comments
BDL Below Detection Limit

Quality Assurance Officer: _____

DP Jensen

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	21-JUN-91	A232488
	Complete	PO Number
	28-JUN-91	RN-21421-S
	Printed	Sampled
	29-JUN-91	20-JUN-91 14:15

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND06S04 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND - 2D
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: R. MCKAIN Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L
EMULSION DURING PREP MAY HAVE CONTRIBUTED TO LOW SURROGATE RECOVERY			

Sample Comments BDL Below Detection Limit

Quality Assurance Officer: _____

DR Peterson

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 21-JUN-91	Lab ID A232493
	Complete 28-JUN-91	PO Number RN-21421-S
	Printed 29-JUN-91	Sampled 20-JUN-91 16:00

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND06S06 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND - 4D
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: R. MCKAIN Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	0.00016	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

BDL Below Detection Limit	Sample Comments
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Quality Assurance Officer:



CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received	Lab ID
	21-JUN-91	A232494
	Complete	PO Number
	28-JUN-91	RN-21421-S
	Printed	Sampled
	29-JUN-91	20-JUN-91 16:15

Report To WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	Bill To BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997
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DESCRIPTION: 91ND06S02 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER	Sample Description ND - SD
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CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 25-JUN-91 Test: P904.1. 0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1030		mL
FINAL VOLUME	5		mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	0.00011	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

Sample Comments BDL Below Detection Limit

Quality Assurance Officer: _____

DP Jensen



APPENDIX C



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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. ~~10~~ 19
Sampling Purpose 1/2 Graw
Date/Time: 5/29/91 In 1010 Out _____
Sampling Personnel mm mw RM RV RJ
HNU Background _____ Well BZ Weather Hot cloudy

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 18.00
Water Depth from RP 12.96

II. Well Volume Information

Length of Water Column 5.44 Volume of Water Column 1 gal

III. Evacuation Information

Evacuation Method MASTERFLEX
Redline ✓ Calibration Stds: ✓ 7 10
Purge Volume (Gals) T pH SpC Time
1 13.3 6.0 185 1323
2 13.0 6.7 185 1329

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
2	ICE	1330	91ND05S08	PCB
2	ICE	1330	91ND05D08	PCB

V. Field Measurements

Temp. 13.0 pH 6.7 SpC 185 Film NDVE

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

M.R. McCa
Field Services Coordinator

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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 25
Sampling Purpose 1/2 Grow
Date/Time: 5/29/91 In 1010 Out 1230
Sampling Personnel MM MW RH RV RT
HNU Background _____ Well BL Weather Cloudy 140°

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 20.00
Water Depth from RP 13.27

II. Well Volume Information

Length of Water Column 6.03 Volume of Water Column 1.0 gal

III. Evacuation Information

Evacuation Method MASTERFLEX
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) T pH SpC Time
1 15.3 8.0 330 1205
2 15.2 8.7 330 1221

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
4	ICE	1230	9INDOS03	PCB

V. Field Measurements

Temp. 15.2 pH 8.7 SpC 330 Film None

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

W.R. Ayers
Field Services Coordinator

000005

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 55
Sampling Purpose 1/2 Gndw
Date/Time: 5/29/91 In 1000 Out 0930 5/30/91
Sampling Personnel MM HW RH RV RT
HNU Background _____ Well 130 Weather Hot, Cloudy

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 17.25
Water Depth from RP 11.00

II. Well Volume Information

Length of Water Column 6.25' Volume of Water Column 1.0 gal

III. Evacuation Information

Evacuation Method BAUER
Redline ☒ Calibration Stds: ☒ 7 ☒ 10
Purge Volume (Gals) T pH SpC Time
1 (dry) 13.9 10.0 240 1347

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>1</u>	<u>ICE</u>	<u>0910 5/30/91</u>	<u>SINDOSE01</u>	<u>PCB</u>
<u>2</u>	<u>ICE</u>	<u>1345</u>	<u>SINDOSE01</u>	<u>PCB</u>

V. Field Measurements

Temp. 13.9 pH 10.0 SpC 240 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

W.R. McCoy
Field Services Coordinator

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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 6B
Sampling Purpose 1/2 GROUND
Date/Time: 5/22/91 In 1000 Out 0530 5/30/91
Sampling Personnel MM MW RH RV RT
HNU Background _____ Well BG Weather Cloudy, HOT

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 18.92
Water Depth from RP 15.95

II. Well Volume Information

Length of Water Column 2.97 Volume of Water Column 0.48 gal

III. Evacuation Information

Evacuation Method BALLETZ
Redline ☒ Calibration Stds: ☒ 7 ☒ 10
Purge Volume (Gals) T 2 pH 7.0 SpC 440 Time 1325
0.75 (dry) 13.6

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>0920 5/30/91</u>	<u>DIND05305</u>	<u>PCB</u>

V. Field Measurements

Temp. 13.2 pH 7.0 SpC 440 Film NONE

VI. Remarks/Miscellaneous Observations Clear

VII. Sample Destination

EMS Laboratory Via _____ By _____

W.R. Myers
Field Services Coordinator

000005

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 1D
Sampling Purpose 1/2 GWA
Date/Time: 5/29/91 In 1015 Out 135
Sampling Personnel MM MW RH RU RT
HNU Background _____ Well DA Weather HOT CLEAR

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 55.75
Water Depth from RP 37.57

II. Well Volume Information

Length of Water Column 18.18 Volume of Water Column 3 gal

III. Evacuation Information

Evacuation Method BAILER
Redline ☒ Calibration Stds: ☒ 7 ☒ 10
Purge Volume (Gals) T pH SpC Time
2 + (DRY) 13.8 >12 (OFF SCALE) 360 1227

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1315</u>	<u>9IND05507</u>	<u>ICB</u>

V. Field Measurements

Temp. 13.8 pH >12 OFF SCALE SpC 360 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

M. R. McCam
Field Services Coordinator

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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 2D
Sampling Purpose 1/2 GROW
Date/Time: 5/29/91 In 1010 Out 1230
Sampling Personnel nn mw RH RV RT
HNU Background _____ Well BG Weather Hot, Cloudy

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 54.15
Water Depth from RP 44.67

II. Well Volume Information

Length of Water Column 9.48 Volume of Water Column 1.55 gal

III. Evacuation Information

Evacuation Method BAILER
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) T pH SpC Time
1.75 14.8 8.7 260 1209
4.25 14.8 8.8 290 1216

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1230</u>	<u>91ND05504</u>	<u>P/B</u>

V. Field Measurements

Temp. 14.8 pH 8.8 SpC 290 Film none

VI. Remarks/Miscellaneous Observations clean

VII. Sample Destination

EMS Laboratory Via _____ By _____

WLR NJCC
Field Services Coordinator

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

000005

Site ND Well No. 4D
Sampling Purpose 1/2 GTON
Date/Time: 5/29/91 In 1010 Out 1220
Sampling Personnel MM MW RH RV RT
HNU Background _____ Well BC Weather Cloudy HOT

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 52.05
Water Depth from RP 41.9

II. Well Volume Information

Length of Water Column 10.25 Volume of Water Column 1.67 gal

III. Evacuation Information

Evacuation Method Bauer
Redline ✓ Calibration Stds: ✓ 7 10
Purge Volume (Gals) T pH SpC Time
2 14.2 7.3 500 205
10 (5 vol vary)

IV. Sample Data

Container(s) 2 Preservation ICE Time Collected 1215 Sample ID No. 91ND05506 Analysis PCB

V. Field Measurements

Temp. 14.2 pH 7.3 SpC 500 Film None

VI. Remarks/Miscellaneous Observations THIRD

VII. Sample Destination

EMS Laboratory Via _____ By _____

M. R. W. C. S.
Field Services Coordinator

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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 5D
Sampling Purpose 1/2 c rca
Date/Time: 5/29/91 In 1010 Out 1340
Sampling Personnel MM NW RA RV RT
HNU Background _____ Well 86 Weather HOT CLOUDY

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 47.61
Water Depth from RP 36.15

II. Well Volume Information

Length of Water Column 11.46 Volume of Water Column 1.87 gal

III. Evacuation Information

Evacuation Method BAILER
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) 3 (Dry) T 13.7 pH 8.3 SpC 370 Time 1334

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1340</u>	<u>91ND05\$02</u>	<u>PCB</u>

V. Field Measurements

Temp. 13.7 pH 8.3 SpC 370 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

W. D. A. [Signature]
Field Services Coordinator



APPENDIX D



000007

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 15
Sampling Purpose CONFIRM
Date/Time: 6/20/91 In 1130 Out 1600
Sampling Personnel MM RV RW SM
HNU Background _____ Well BG Weather HOT SUNNY

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 18.00
Water Depth from RP 13.44

II. Well Volume Information

Length of Water Column 4.56 Volume of Water Column 0.74 gal

III. Evacuation Information

Evacuation Method MASTER FLEX
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) T pH SpC Time
0.75 14.5 7.2 220 1410
1.50 15.5 7.9 190 1519
2.25 16.0 9.4 190 1522
3.00 15.3 10.4 182 1528
3.75 14.8 8.5 190 1533
IV. Sample Data 14.8 8.8 190 1536

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1600</u>	<u>91ND06508</u>	<u>PCB</u>
<u>2</u>	<u>ICE</u>	<u>1600</u>	<u>91ND06708</u>	<u>PCB</u>

V. Field Measurements

Temp. 14.8 pH 8.8 SpC 190 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

M.R. McC
Field Services Coordinator

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

000007

Site ND
Sampling Purpose CONFIRM Well No. 29
Date/Time: 6/20/91 In 1130 Out 1915
Sampling Personnel MM RV NW SM
HNu Background _____ Well RG Weather HOT, SUNNY

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 20.00
Water Depth from RP 14.13

II. Well Volume Information

Length of Water Column 5.87 Volume of Water Column 0.96 gal

III. Evacuation Information

Evacuation Method MASTERFLEX
Redline ✓
Purge Volume (Gals) Calibration Stds: ✓ 7 ✓ 10
1 T pH SpC Time
16.1 7.8 338 1431
2 15.3 8.8 340 1438
3 15.4 9.4 338 1445

IV. Sample Data

Container(s) 4 Preservation ICE Time Collected 1450 Sample ID No. 91ND06503 Analysis PB

V. Field Measurements

Temp. 15.4 pH 9.4 SpC 338 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

M.R. McCoy
Field Services Coordinator

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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 55
Sampling Purpose CONFIRM
Date/Time: 6/20/91 In 1130 Out 0830 6/21/91
Sampling Personnel MM RV MW SM
HNU Background _____ Well B6 Weather HOT SUNNY

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 17.25
Water Depth from RP 11.94

II. Well Volume Information

Length of Water Column 5.31 Volume of Water Column 0.87 gal

III. Evacuation Information

Evacuation Method BAUER
Redline ☒ Calibration Stds: ☒ 7 ☒ 10
Purge Volume (Gals) T pH SpC Time
1 gal (DRY) 13.8 7.6 325 0815

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>0830</u>	<u>91ND06501</u>	<u>PCB</u>
<u>2</u>	<u>ICE</u>	<u>0830</u>	<u>91ND06E01</u>	<u>PCB</u>
		<u>6/21/91</u>		

V. Field Measurements

Temp. 13.8 pH 7.6 SpC 325 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR

VII. Sample Destination

EMS Laboratory Via _____ By _____

M.R. McCann
Field Services Coordinator

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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 6B
Sampling Purpose CONFIRM
Date/Time: 6/20/91 In 1130 Out
Sampling Personnel MM RV MW SM
HNU Background Well BG Weather HOT SUNNY

I. Well Information

Reference Pt. (casing & height above grade)
Well Diameter Well Depth from RP 18.92
Water Depth from RP 17.82

II. Well Volume Information

Length of Water Column 1.1 Volume of Water Column 0.18 gm

III. Evacuation Information

Evacuation Method BAUER
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) T pH SpC Time

DRY, NO WATER IN WELL

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>		<u>9IND06505</u>	<u>PCB</u>

V. Field Measurements

Temp. pH SpC Film

VI. Remarks/Miscellaneous Observations

NO SAMPLE TAKEN

VII. Sample Destination

EMS Laboratory Via By

MR. McCann
Field Services Coordinator

000006

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 10
Sampling Purpose R CONFIRM
Date/Time: 6/20/91 In 1130 Out 1511
Sampling Personnel MM RV MW SM
HNU Background _____ Well BG Weather SUNNY HOT

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 55.75
Water Depth from RP 37.97

II. Well Volume Information

Length of Water Column 17.78 Volume of Water Column 2.90 gal

III. Evacuation Information

Evacuation Method BAILER
Redline ☒ Calibration Stds: ☒ 7 ☒ 10
Purge Volume (Gals) T pH SpC Time
3 14.5 712 220 1410
6 14.3 712 238 1455

IV. Sample Data

Container(s) 2 Preservation ICE Time Collected 1500 Sample ID No. SIND06507 Analysis PCB

V. Field Measurements

Temp. 14.3 pH 712 SpC 238 Film NONE

VI. Remarks/Miscellaneous Observations CLEAR BUT MURKY

VII. Sample Destination

EMS Laboratory Via _____ By _____

M. R. McC
Field Services Coordinator

007703

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 20
Sampling Purpose CONFIRM
Date/Time: 6/20/91 In 1130 Out 1430
Sampling Personnel MM RV MW SM
HNu Background _____ Well BC Weather HOT SUNNY

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter 2" Well Depth from RP 54.15
Water Depth from RP 44.78

II. Well Volume Information

Length of Water Column 9.16 Volume of Water Column 1.5 gal

III. Evacuation Information

Evacuation Method BAILER
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) T pH SpC Time
1.5 15.5 7.0 255 1352
3.0 15.1 7.0 300 1400
4.5 15.8 7.0 312 1400

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1415</u>	<u>91ND06504</u>	<u>PCB</u>

V. Field Measurements

Temp. 15.8 pH 7.0 SpC 312 Film NONE

VI. Remarks/Miscellaneous Observations SLIGHT TURBID

VII. Sample Destination

EMS Laboratory Via _____ By _____

W.R. MCCA
Field Services Coordinator

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WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 4D
Sampling Purpose CONFIRM
Date/Time: 6/20/91 In 1130 Out 1600
Sampling Personnel MM RV MW SM
HNU Background _____ Well BG Weather 1st SUNNY

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 52.05
Water Depth from RP 42.08

II. Well Volume Information

Length of Water Column 9.97 Volume of Water Column 1.63 gal

III. Evacuation Information

Evacuation Method BAUER
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) T pH SpC Time
1.75 14.3 7.12 450 1531
3.50 14.1 11.2 450 1537

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1600</u>	<u>91ND06S06</u>	<u>PCB</u>

V. Field Measurements

Temp. 14.1 pH 11.2 SpC 450 Film NONE

VI. Remarks/Miscellaneous Observations TURBID

VII. Sample Destination

EMS Laboratory Via _____ By _____

M. R. McCoy
Field Services Coordinator

000000

WESTINGHOUSE ELECTRIC CORPORATION
GROUND WATER SAMPLING FIELD LOG
BLOOMINGTON, INDIANA

Site ND Well No. 5D
Sampling Purpose CONFIRM
Date/Time: 6/20/91 In 1130 Out 1630
Sampling Personnel MM RV MW SM
HNu Background _____ Well B6 Weather HOT SUNNY

I. Well Information

Reference Pt. (casing & height above grade) _____
Well Diameter _____ Well Depth from RP 47.61
Water Depth from RP 36.43

II. Well Volume Information

Length of Water Column 11.18 Volume of Water Column 1.82 gal

III. Evacuation Information

Evacuation Method BAILER
Redline ✓ Calibration Stds: ✓ 7 ✓ 10
Purge Volume (Gals) 2.5 (DRY) T 14.4 pH 400 SpC 400 Time 1610
11.0

IV. Sample Data

Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
<u>2</u>	<u>ICE</u>	<u>1615</u>	<u>91ND06402</u>	<u>PCB</u>

V. Field Measurements

Temp. 14.4 pH 11.0 SpC 400 Film NONE

VI. Remarks/Miscellaneous Observations SLIGHT TURBID

VII. Sample Destination

EMS Laboratory Via _____ By _____

W. R. [Signature]
Field Services Coordinator